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## HAWK LOW ALTITUDE SURFACE-TO-AIR MISSILE UNITED STATES

## GOA LOW ALTITUDE SURFACE-TO-AIR MISSILE USSR

_		
1.	WEAPON CATEGORY:	
		SURFACE-TO-AIR SA-3.
2.	PRODUCTION:	
		MOSCOW/TUSHINO AIRCRAFT PLANT 82. THIS 2
		PLANT IS KNOWN TO HAVE PRODUCED THE SA-1,
		PROBABLY THE SA-2, AND POSSIBLY OTHER
		SURFACE-TO-AIR MISSILES.
3	RESEARCH & DEVELOPMENT:	
		THERE IS EVIDENCE THAT THE SA-1 (GUILD)
		AND SA-2 MISSILES WERE DEVELOPED BY THE
		· DESIGN BUREAU OF S.A. LOVACHKIN AT AIR-
		CRAFT PLANT 301, MOSCOW/KHIMKI. THE
		SIMILARITY OF DESIGN BETWEEN THE SA-1,
L		SA-2, SA-3, AND GRIFFON MISSILES IN-
I		DICATE THAT THIS DESIGN BUREAU IS PRO-
		BABLY RESPONSIBLE FOR THESE AND POS-
		SIBLY OTHER AIR DEFENSE MISSILE SYSTEMS.
		FLIGHT TESTING AND PROGRAM EVALUATION
	•	IS CARRIED OUT AT THE KAPUSTIN YAR.

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MISSILE TEST CENTER.

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TROOP TRAINING;	
	THERE ARE NUMEROUS SITES THROUGHOUT
	THE SOVIET UNION WHERE TROOPS ARE
	TRAINED. KORDON SAM TRAINING FAC-
	ILITY IS ONE.
DEPLOYMENT:	<del>_</del>
	THE INITIAL OPERATIONAL DEPLOYMENT
	OF THE GOA SYSTEM WAS CONFIRMED IN
	JULY 1961. SINCE THEN SA-3 SITES HAVE
	BEEN DEPLOYED IN SEVERAL ISOLATED LO-
	CATIONS WITHIN THE SOVIET UNION. THEY
	ARE USUALLY COLLOCATED WITH SA-2 SAM
	AND LENINGRAD.
MISSILE DESCRIPTION:	
	THE GOA IS A SHORT-RANGE, TWO STAGE,
	SOLID PROPELLANT, TACTICAL ANTI-AIR-
	CRAFT DEFENSE MISSILE SYSTEM, WITH LOW-
	ALTITUDE CAPABILITY, AND HIGHLY MOBILE.
	LENGTH
	RANGE SLAND RANGE)
	ALTITUDE

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	WARHEADHE, FRAGMENTATION  MAXIMUM VELOCITYMACH 2.5  GUIDANCECOMMAND
7. ORG	RGANIZATION:  UNKNOWN
	, .
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. SITE DESCRIPTION:	
	A TYPICAL SA-3 SAM SITE COMSISTS OF . 2
	FOUR REVETTED LAUNCH PADS, A REVET-
	TED GUIDANCE AREA, A REVER ED HOLDING
	AREA, AND OTHER ADMINISTRATIVE/SUIPORT
	BUILDINGS. THE LAUNCH PARE AFPROX-
	IMATELY 40 FT IN DIAMETER TO HAVE WALLS,
	3-5 FT IN HEIGHT AND 15-20 FT THICK AT
	THE BASE, SURROUNDING THEM. EACH PAD
	CONTAINS A 20 FT LONG TRAINABLE LAUNCHER
	CAPABLE OF SUPPORTING AND LAUNCHING TWO
	MISSILES.
• ELECTROPICS:	
	GUIDANCE AND MISSILE TRACKING, - LOW BLOV. 2
	RADAR.
	ACQUISITION FLAT FACE RADAF.
	A SEVERE LIMITATION HAS BEEN PLACED ON THE
	ANALYSIS OF THE SA-3 SYSTEM BY THE LACK
	OF DETAIL ON THE LOW-BLOW FIRE CONTROL
	RADAR AND THE SPECIFICS ON THE GUIDANCE
	SYSTEM.
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